QUESTION #11

ANACONDA MINERALS COMPANY RESPONSE TO QUESTIONS IN LETTER DATED 19 JANUARY 1982 FROM MARC NELSON, MINERALS MANAGEMENT SERVICE TO BILL GRAY, ANACONDA.

ANACONDA MINERALS COMPANY
NEW MEXICO OPERATIONS
RESPONSE TO MMS QUESTIONS

QUESTION

1. The date that the Woodrow Mine was backfilled, a discussion of the type of material used for backfilling, and a discussion of the amount of settling that has or is occurring.

RESPONSE

1. Entrance sealing activities related to the Woodrow Underground Mine were conducted during August of 1980. Two shafts existed at the site and both were filled with overburden material.

   The southern shaft was drilled and blasted. The blast collapsed a portion of the shaft, and additional material was required to fill the entry. Overburden material consisting of shales and Dakota Sandstone was used to backfill the shaft.

   The northern shaft was also backfilled with shales and Dakota Sandstone. This shaft was filled from the bottom all the way to the surface.

   Following a month's time, some subsidence was noted in the filled areas. The settling measured about 12 to 20 inches. Both shafts were then filled again with Tres Hermanos Sandstone and alluvium found in the area. A mound of this material was placed over the mine entries to compensate for future subsidence. To date, no additional settling has been detected in the Woodrow Mine area.

QUESTION

2. The date that Alpine and PW 2/3 were sealed, and a discussion of the method used to fill and seal these adits.

RESPONSE

2. The Alpine Mine was sealed on 6 April 1973. Two mine entries existed and both were backfilled about 5 to 10 feet from the outside surface. No bulkheads were placed in these adits at that time. During the Jackpile-Paguate Mine reclamation project, both mine adits will be cleared of existing backfill and a concrete bulkhead 12" thick will be anchored into the side walls about 15 feet inside the portal. This 15 foot area will then be backfilled with mixed overburden material consisting of Dakota Sandstone and some shales.

The PW 2/3 mine has four adits within North Paguate Pit and all have been sealed. Sealing activities began on August 31, 1980. The number 1 and number 3 adits were bulkheaded with wood structures 15 feet inside the entry. This area was then filled with primarily shale overburden material. The number 2 and 4 adits were backfilled over the entry. The backfill is presently piled over these entries about 50 feet. The proposed backfill in this area of North Paguate Pit, as per the March, 1982, Reclamation Plan, will entirely cover these areas and preclude easy access to the mine adits.

QUESTION

3. A map showing the extent of all underground mine workings and mine openings.

RESPONSE

3. A map showing the extent of all underground mine workings and mine openings was included in the Jackpile-Paguate Uranium Mine Reclamation Plan which was submitted to the Minerals Management Service on 16 March 1982. A copy of this map (Plate 4.1-4) is enclosed for your convenience. Also enclosed are maps showing more detail of the underground workings. These 15 maps have also been included in previous correspondence from Z. E. Arlin to Dale Jones, District Mining Supervisor (1 March 1982, 15 March 1982, and 31 March 1982).

The P-9-3 and the P-11 mine workings were not developed to ore production status and thus were not included on the Reclamation Plan Map (Plate 4.1-4). However, maps of these workings are included in the set of 15 maps.

The enclosed maps are:

1) Jackpile-Paguate underground mine workings and venthole locations (4.1-4).
2) P-10 Haulage Level, scale 1" = 100'.
3) P-10 First Level, scale 1" = 100'.
4) P-10 Second Level, scale 1" = 100'.
5) P-10 Third Level, scale 1" = 100'.
6) P-9-2 Mine, scale 1" = 100'.
7) PW-2/3 Mine, scale 1" = 100'.
8) P-9-3 and P-11 Mines, scale 1" = 50'.
9) Alpine Test Mine, scale 1" = 20'.
10) H-1 Mine, scale 1" = 50'.
11) Woodrow Mine Section N.20°E., scale 1" = 20'.
12) Woodrow Mine 100 Level, scale 1" = 10'.
13) Woodrow Mine 200 Level, scale 1" = 10'.
14) P-13 Progress Map - final.
15) NJ-45 Progress Map - final.
16) P-10 Mine - final progress.

QUESTION

4. A map showing the location and description of all subsidence monitoring stations.

RESPONSE

4. Attached is a map showing the locations of the subsidence monitoring stations. Information from the stations is submitted to the MMS Albuquerque Office on a quarterly basis.